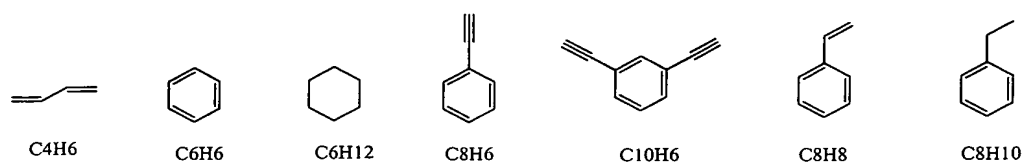
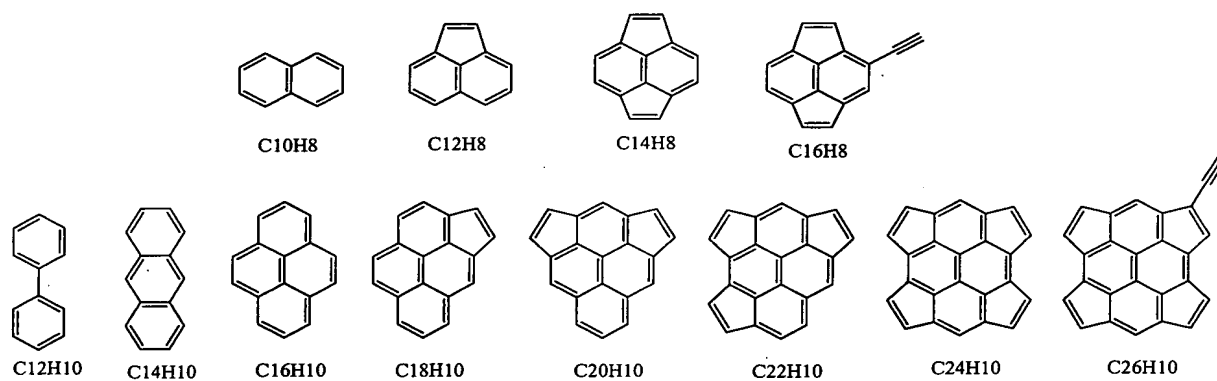


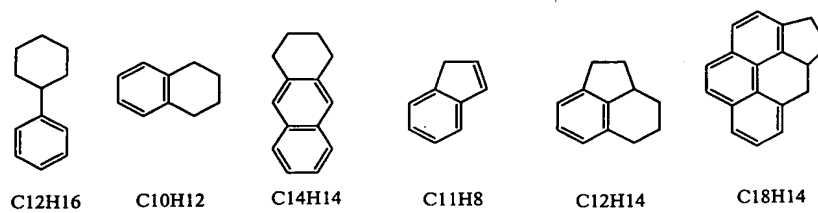
### Non-Polycyclic Hydrocarbons



## Polycyclic Aromatic Hydrocarbons



## Partially Hydrogenated Polycyclic Aromatic Hydrocarbons



The diagram illustrates a laser ion trap system. On the left, a **Sampling Tube** is shown with a flame at its base, leading into a **Dilution Chamber**. A tube connects the dilution chamber to the **Converging Nozzle** of the ion trap. The ion trap consists of a **Converging Nozzle**, followed by **Stage 1** and **Stage 2**, each equipped with a **Skimmer**. Two **Ar Ion lasers** are positioned to intersect the ion beam, with **Fiber Optics** connecting them to **PMT** (Photomultiplier Tube) detectors. These detectors are connected to **Timing Electronics**, which is also linked to a **Computer**. An **Excimer Laser** is shown at the bottom, with dashed lines indicating its interaction with the ion trap region. A **Channeltron** detector is also shown, connected to the ion trap.

Figure 2

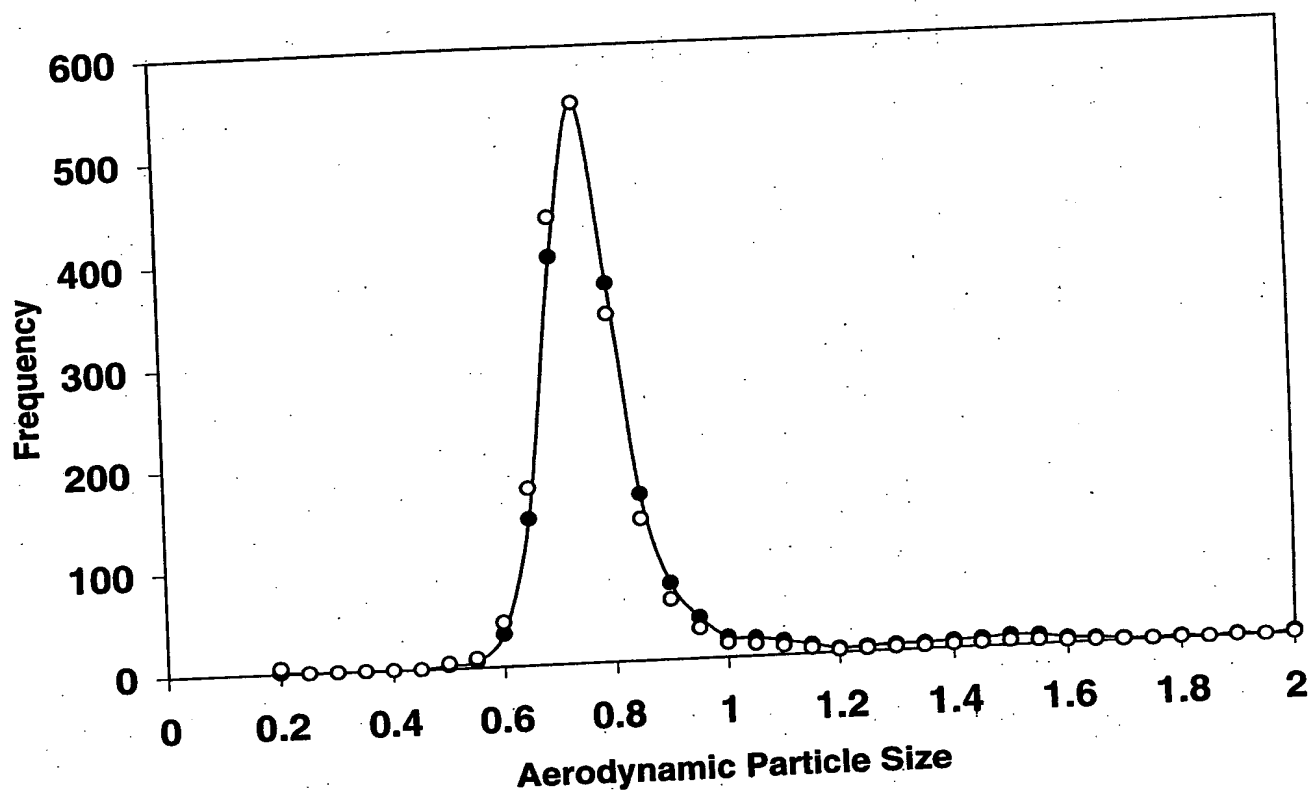


Figure 3

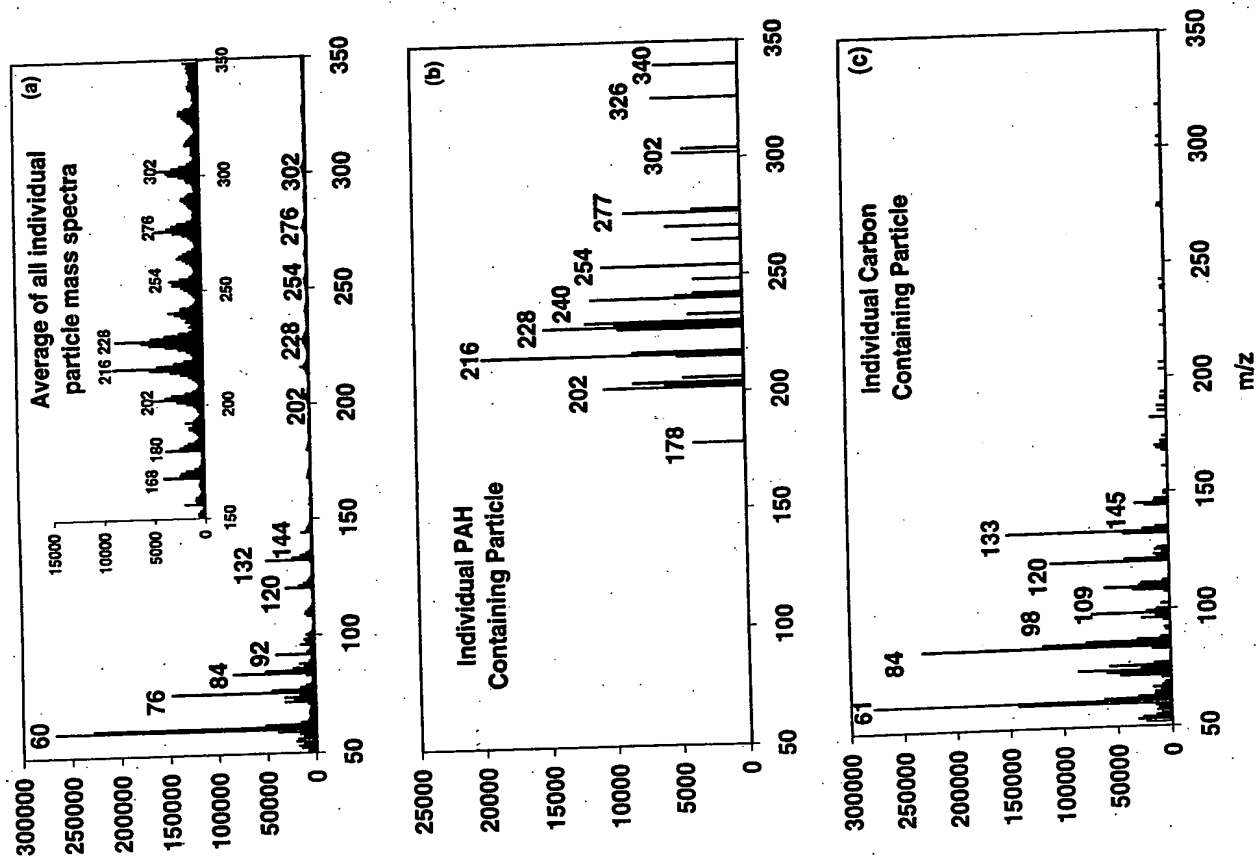


Figure 4

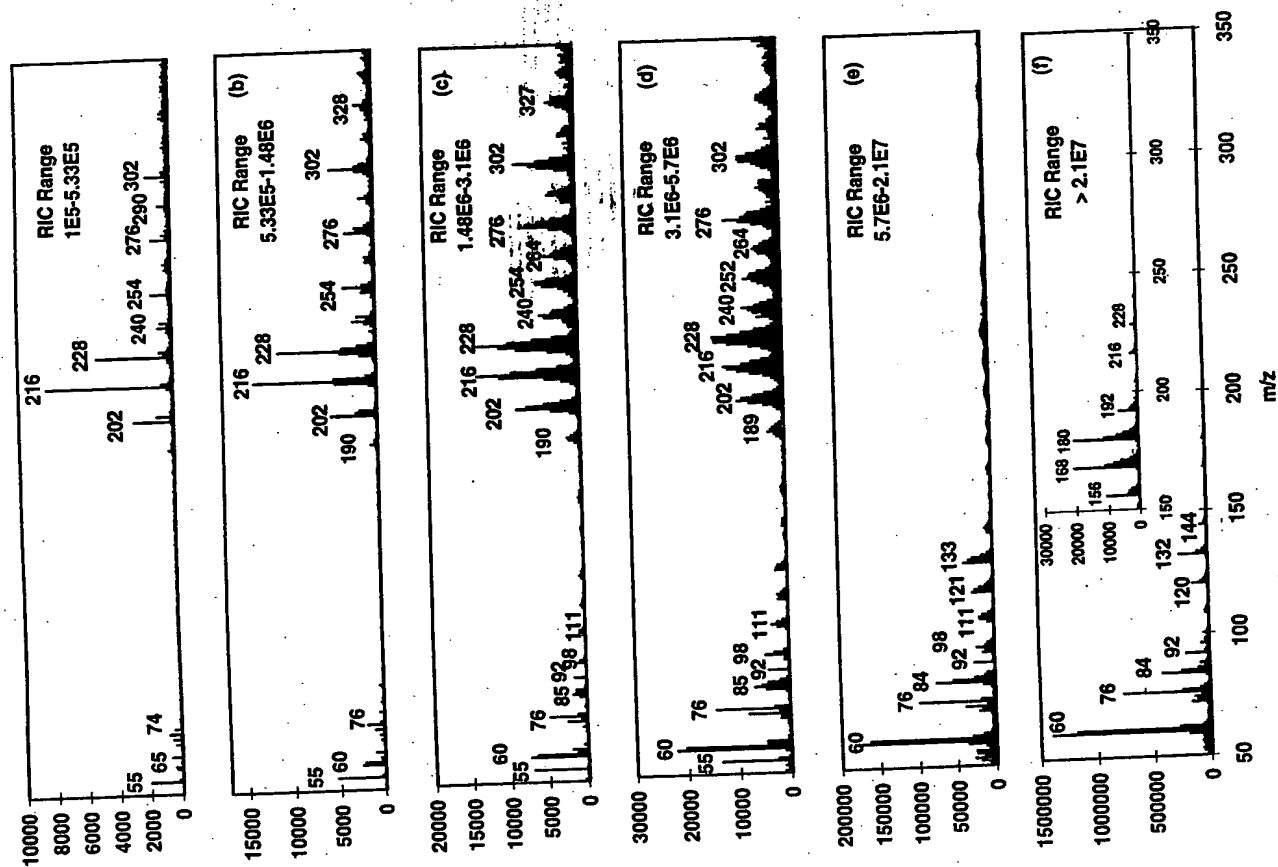


Figure 5

002160 2226660

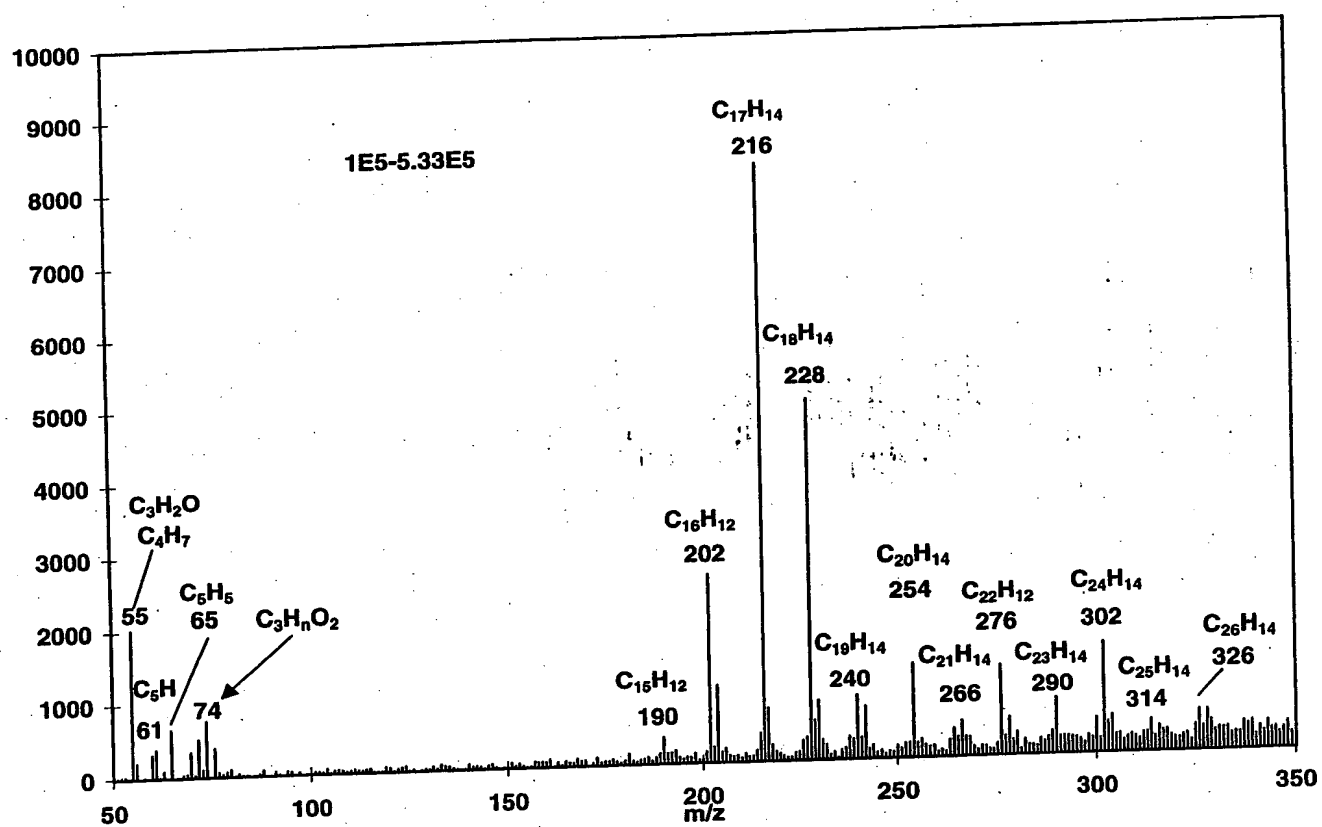


Figure 6

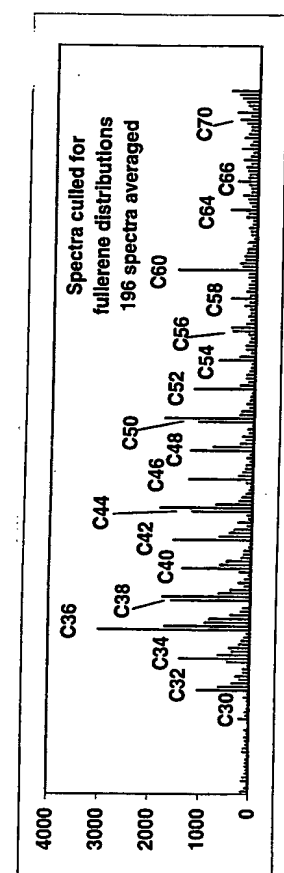


Figure 7

09300222 091789

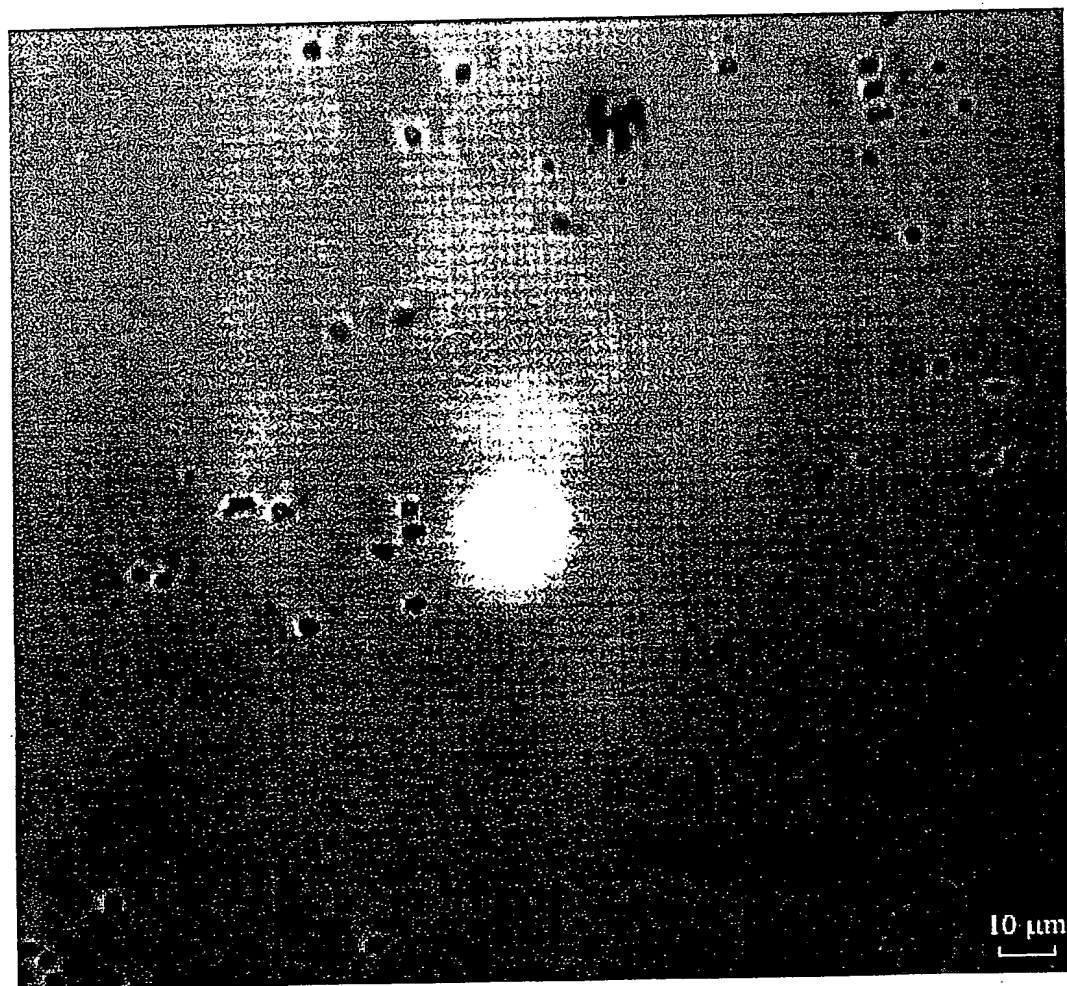


Figure 8